

Barley lipid transfer protein mouse monoclonal antibody

Catalog PODI-0005

Product specification sheet PS-PAb0005

Relevance

Lipid-transfer proteins (LTP) are basic, 9-kDa proteins present in high amounts (as much as 4% of the total soluble proteins) in higher plants. LTPs can enhance the in vitro transfer of phospholipids between membranes and can bind acyl chains. On the basis of these properties, LTPs were thought to participate in membrane biogenesis and regulation of the intracellular fatty acid pools. However, the isolation of several cDNAs and genes revealed the presence of a signal peptide indicating that LTPs could enter the secretory pathway. They were found to be secreted and located in the cell wall. Thus, novel roles were suggested for plant LTPs: participation in cutin formation, embryogenesis, defense reactions against phytopathogens, symbiosis, and the adaptation of plants to various environmental conditions. The validity of these suggestions needs to be determined, in the hope that they will elucidate the role of this puzzling family of plant proteins. Barley LTP1 has been shown to play a role in beer foam stabilization

Product type:	Primary antibodies
Clone number:	n.a. (purified from ascites fluid)
Immunogen:	Synthetic peptide of N-terminal 15 amino acids
Reacts with:	Barley (Cross-reactivity not yet tested in other species)
Tested applications:	ELISA
Raised in:	Mouse
Purity:	affinity purified, >95%
Isotype:	IgG1
Light chain type:	
Storage buffer:	Tris buffered saline, pH 7.4
Form:	Liquid
Concentration:	0.5 mg/ml

Storage and stability

Store at 4 °C, short term (1-2 weeks). For long-term storage, aliquot and keep at or below -20° C. Avoid repeated freeze-thaw cycles

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